**Test Document - Student Performance Evaluation System**

**Test Suite: TS-01  
Test Suite name: Student Grade Evaluator Tests  
Created by: [Seu Nome]  
Created at: 27/02/2025  
System version: 1.0.0**

### **Description**

**This document describes the test cases to validate the functionality of the Student Performance Evaluation System, based on each student's grade. The code was implemented with the RelacaoNota class, which has the calcularNotas() method responsible for classifying the student's performance based on the provided grade.**

### **Objective**

**The objective of this test suite is to verify whether the system correctly calculates the student's performance according to their grade. Tests will be conducted to ensure that the system's conditions are being met correctly.**

### **Requirements**

* **IntelliJ IDEA or other IDE**
* **Java 8+**
* **JUnit4**
* **The system must be accessible and operational**
* **The system must correctly classify the student's performance**
* **Access to the test files is required**

| Test case | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Test case | Description | Input | **Expected Result** | **Obtained Result** | **Correction Needed?** | **OBS** |
| shouldReturnExcelenteForGradesBetween90and100 | Check when the notes are between 90 and 100 | new Aluno("Adrian", 100), new Aluno("Bruno", 95), new Aluno("Carlos", 90) | "Excelente" | Excelente | No | Test result in success |
| shouldReturnBomForGradesBetween75and89 | Check when the notes are between 75 and 89 | new Aluno("Daniel", 89), new Aluno("Ester", 80), new Aluno("Fábio", 75) | Bom | Bom | No | Test result in success |
| shouldReturnRegularForGradesBetween50and74 | Check when the notes are between 50 and 74 | new Aluno("Gabriel", 74), new Aluno("Heitor", 70), new Aluno("Isaias", 50) | "Regular" | Regular | No | Test result in success |
| shouldReturnInsuficienteForGradesBetween30and49 | Check when the notes are between 30 and 49 | new Aluno("Julio", 49), new Aluno("Kaine", 35), new Aluno("Lucas", 30) | Insuficiente | Insuficiente | No | Test result in success |
| shouldReturnReprovadoForGradesBelow30 | Check when the grade is less than 30 | new Aluno("Marcos", 29), new Aluno("Nathan", 15) | Reprovado | Reprovado | No | Test result in success |
| shouldThrowExceptionForGradesAbove100 | Check when the grade is above 100 | new Aluno("Oseias", 101) | "Número maior que permitido" | "Número maior que permitido" | No | Test result in success |
| shouldThrowExceptionForGradesBelow0 | Check when the grade is less than 0 | new Aluno("Pedro", -1) | "Número menor que permitido" | "Número menor que permitido" | No | Test result in success |